

FILE 'MEDLINE, EMBASE, SCISEARCH, BIOSIS, USPATFULL' ENTERED AT 14:10:42
ON 24 OCT 2002

L1 1258 S DENATUR? (P) CHAOTROP?
L2 5106 S DENATUR? (P) DETERGENT?
L3 1496 S DENATUR? (P) SURFACTANT?
L4 49281 S DENATUR? (P) ACID?
L5 23194 S DENATUR? (P) BASE?
L6 12 S L1 AND L2 AND L3 AND L4
L7 12 DUP REM L6 (0 DUPLICATES REMOVED)
L8 20910 S TYRAMINE? OR TYRAMIDE?
L9 89 S L8 (6P) DENATUR?
L10 2 S L9 AND L1
L11 8 S L9 (6P) (?SPECIFIC? BINDING)
L12 8 DUP REM L11 (0 DUPLICATES REMOVED)
L13 41092 S ?TYRAMINE? OR ?TYRAMIDE?
L14 132 S L13 (6P) DENATUR?
L15 1 S L14 AND L1 AND (?SPECIFIC? BINDING)
L16 24 S L14 AND (?SPECIFIC? BINDING)
L17 24 DUP REM L16 (0 DUPLICATES REMOVED)
L18 53 S DENATUR? (P) SAPONIN
L19 37 DUP REM L18 (16 DUPLICATES REMOVED)
L20 4259 S DENATURING AGENT?
L21 7298 S CHAOTROP?
L22 166943 S DETERGENT?
L23 232808 S SURFACTANT?
L24 29395 S SAPONIN?
L25 119 S L20 (P) L21
L26 276 S L20 (P) L22
L27 73 S L20 (P) L23
L28 0 S L20 (P) L24
L29 52 S L25 AND (?SPECIFIC? BINDING)
L30 1 S L29 AND L26 AND L27
L31 43 S L26 AND (?SPECIFIC? BINDING)
L32 16 S L27 AND (?SPECIFIC? BINDING)
L33 50 DUP REM L29 (2 DUPLICATES REMOVED)
L34 43 DUP REM L31 (0 DUPLICATES REMOVED)
L35 16 DUP REM L32 (0 DUPLICATES REMOVED)
L36 41092 S ?TYRAMIDE? OR ?TYRAMINE?
L37 213 S L36 (10P) ?SPECIFIC? BINDING
L38 1 S L37 AND (DENATURING AGENT?)
L39 5 S L37 AND (CHAOTROP?)
L40 5 DUP REM L39 (0 DUPLICATES REMOVED)

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(FILE 'HOME' ENTERED AT 11:51:09 ON 24 OCT 2002)

FILE 'MEDLINE, EMBASE, SCISEARCH, BIOSIS, USPATFULL' ENTERED AT 11:51:26
ON 24 OCT 2002

L1 1625 S CHAOTROP? (6P) DENATUR?
L2 162 S L1 (10P) STAIN?
L3 2 S L2 AND (TYRAMI?)
L4 1 S L1 (10P) (NONSPECIFIC (3A) STAIN?)
L5 3 S L1 (10P) (NONSPECIFIC (3A) LABEL?)
L6 3 DUP REM L5 (0 DUPLICATES REMOVED)
L7 1625 S (DENATUR?) (6P) (CHAOTROP?)
L8 6987 S (DENATUR?) (6P) (DETERGENT?)
L9 3196 S (DENATUR?) (6P) (SURFACTANT?)
L10 65365 S (DENATUR?) (6P) (ACID?)
L11 39194 S (DENATUR?) (6P) (BASE?)
L12 60 S L7 AND L8 AND L9 AND L10 AND L11
L13 60 DUP REM L12 (0 DUPLICATES REMOVED)

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5902727

ACCESSION NUMBER: 1999:56400 USPATFULL
 TITLE: Method for localization and quantitation of a substance
 in a biological sample
 INVENTOR(S): Roth, Kevin A., St. Louis, MO, United States
 Lorenz, Robinna, St. Louis, MO, United States
 PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5902727		19990511
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FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Wortman, Donna C.		
LEGAL REPRESENTATIVE:	Howell & Haferkamp, L.C.		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	901		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for localizing and quantitating a target substance in a biological sample is disclosed. The method utilizes an enzyme-linked probe that binds to the target substance and generates a depositable chromogenic or fluorogenic substance which detects position and a soluble chromogenic or fluorogenic substance which allows quantitation in the medium bathing the sample.

DETD . . . for signal amplification is described in U.S. Pat. No. 5,196,306 and the corresponding commercial kit form known as the biotin **tyramide** signal amplification (TSA, New England Nuclear Life Science Products, Boston, Mass.) method. The method utilizes an enzyme-linked antibody that binds.

DETD . . . can be terminated by removal of the solution phase from the enzyme or by addition of acids, bases, reducing agents, **chaotropic** agents or the like to a sample of the solution phase first removed from the enzyme. A chromogenic or fluorogenic.

DETD . . . boiling. In addition, surface sites unrelated to the target substance can sometimes also bind the probe nonspecifically. To reduce this **nonspecific binding**, the sample can be coated with a solution which contains a reagent which binds to and masks or generally blocks such **nonspecific binding** sites. Some such masking or blocking agents include gelatin, bovine serum albumin, powdered milk and some detergents.